

WHAT IS CLAIMED IS:

1. An image display unit, comprising:

a face plate;

5 a rear plate disposed facing the face plate;

a large number of electron emission elements formed on the rear plate; and

a phosphor screen emitting by an electron beam emitted from the electron emission element, the phosphor screen being formed on
10 an inner surface of the face plate,

wherein the phosphor screen includes a light absorption layer, a phosphor layer, a metal back layer having a separating portion, the metal back layer being formed on the phosphor layer, a high-resistance covering layer formed on the separating portion of
15 the metal back layer in such a way as to be laid across the metal back layer of both sides of the separating portion, a heat-resistant fine particle layer formed on the high-resistance covering layer, and a getter layer formed in a film shape above the metal back layer and divided by the heat-resistant fine particle layer.

20 2. The image display unit as set forth in claim 1, wherein the separating portion of the metal back layer is positioned on the light absorption layer.

3. The image display unit as set forth in claim 1 or claim 2, wherein the high-resistance covering layer has a surface resistance
25 of from 1×10^3 to $1 \times 10^{12} \Omega/\square$.

4. The image display unit as set forth in claim 1, wherein an average particle size of the heat-resistant fine particles is from 5 nm to 30 μm .

5. The image display unit as set forth in claim 1, wherein the heat-resistant fine particle is a particle of at least one kind of oxide selected from SiO_2 , TiO_2 , Al_2O_3 , and Fe_2O_3 .

6. The image display unit as set forth in claim 1, wherein
5 the getter layer is a layer of a metal selected from Ti, Zr, Hf, V, Nb, Ta, W, and Ba, or of an alloy containing at least one kind of these metals as a main constituent.